CELLULAR PHYSIOLOGY WORKSTATIONS FOR AUTOMATED DATA ACQUISITION AND PERFUSION CONTROL

Abstract of the Disclosure

Cellular physiology workstations for automated data acquisition and perfusion control are described. 5 cellular physiology workstation may be used for physiological and electrophysiological experiments. for employing such cellular physiology workstations in physiological and electrophysiological experiments are also 10 disclosed. The cellular physiology workstations comprise one or more recording chambers each for holding one or more cells to be measured. One or more cells are place in each recording chamber. Perfusions means, such as an automatic perfusion system is connected to the recording chamber to perfuse the cells with a plurality of solutions containing 15 different concentration of one or more agents to be tested. Biosensors, such as patch clamps, electrodes, or microscopes are positioned to detect a response from the cell. cellular physiology workstation may optionally comprise 20 injecting means for introducing an injection solution into the cell before and during analysis.

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